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**Industry Series** 

Preliminary Report

## Installation or Erection of Building Equipment Special Trade Contractors, N.E.C.

**SIC 1796** 

During 1977, the establishments with payroll in this industry had business receipts of \$2.0 billion. Of this amount, \$1.95 billion were receipts for construction work, an increase of 38 percent compared with 1972. Their payments for construction work subcontracted to others amounted to \$70.7 million leaving net construction receipts of about \$1.88 billion. Total average employment in the industry showed an increase of 7 percent from 1972 to 41.9 thousand employees. Payroll for 1977 amounted to \$775.0 million. Value added at \$1.4 billion in 1977 was 45 percent more than in 1972.

The Installation or Erection of Building Equipment Special Trade Contractors, N.E.C. industry includes establishments primarily engaged in the installation of building equipment, not elsewhere classified, such as elevators, escalators, pneumatic tube systems, and dust collection equipment. This industry also includes contractors primarily engaged in the installation of or the dismantling of machinery or other industrial equipment. It also includes establishments engaged in the installation of built-in vacuum cleaning systems, revolving doors, and dumbwaiters. For a more detailed description, see the 1972 SIC Manual.<sup>1</sup>

For this census, a "construction establishment" was defined as a relatively permanent office or other place of business at which or from which the usual business activities related to construction were conducted. A separate census report was required from each establishment but not from each construction site. Instead, the data for work at each site were included in the report from the appropriate office or branch office. Foreign construction activities were not included in this census.

The 1977 Census of Construction Industries is the sixth census of construction establishments in the United States. As in previous years, it was conducted jointly with the censuses of mineral industries, manufactures, retail trade, wholesale trade, and service industries under authority of title 13 of the United

States Code. Although the first construction census was conducted covering 1929, only the data from the censuses of 1967 and 1972 are comparable with the 1977 data.

The 1977 estimates for establishments with payroll in all of the construction industries are based on reports from a probability sample of approximately 181,000 establishments selected from about 536,000 construction establishments with payroll. The sample included all construction establishments with a payroll equivalent of 15 or more full-time employees and a sample of those with fewer employees. There were two exceptions: In SIC 1521, sampling was employed in establishments with less than 20 employees because of the large number of establishments in that industry; in SIC 1795, all known establishments were included because of the very small number of establishments in that industry. The data obtained from the sample were inflated to represent all construction establishments with payroll. Complete descriptions of the sampling and estimating procedures will be included in the final reports.

Since the data in this report are based on a sample, they are subject to sampling variability and may be expected to differ from results which would have been obtained if a complete census had been taken using the same schedules and procedures. The standard error shown in the tables is a measure of sampling variability, i.e., the variation that might occur by chance because only a sample of the population was surveyed. As calculated for this report, the standard error partially incorporates the effect of random errors of response, but it does not take into account the effect of any consistent biases due to those types of errors. The chances are about 68 out of 100 that an estimate from the sample would differ from a complete



<sup>&</sup>lt;sup>1</sup> Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 4101-0066. Price \$6.75. 1977 Supplement. Stock No. 003-005-00176-0. Price 90 cents.

Table 1. Detailed Statistics for Establishments With Payroll: 1977, 1972, and 1967

(Thousands of dollars. Detailed figures may not add to totals because of rounding. For meaning of abbreviations and symbols, see text)

(Thousands of dollars. Detailed figures may not add to totals because of rou	Installation or e	Installation or erection of building equipment special trade contractors, n.e.c. (1796)			Standard error of estimate (percent)		
	1977	1972	1967	1977	1972	1967	
Number of establishments	2,509	1,945	1,456	3	4	6	
Proprietors and working partners	595	559	555	10	13	12	
All employees:  March	40,266 41,516 42,896 42,695 41,873	39,973 32,986 41,279 40,586 38,956	21,353 26,292 26,796 25,712 25,176	1 1 1 1 1	1 1 1 1	1 1 1 1 1	
Construction workers: March. May. August. November. Average.	32,335 33,433 34,884 34,656 33,857	31,961 25,093 33,474 32,776 31,058	16,137 21,066 21,638 20,374 19,936	1 1 1 1	1 2 2 2 2	1 1 1 1	
Other employees: March. May August. November. Average.	7,931 8,083 8,012 8,039 8,028	8,012 7,893 7,805 7,810 7,951	5,221 5,225 5,164 5,348 5,272	1 1 1 1	1 1 1 1	2 2 2 2 2	
Payroll, all employees	774,967 618,865 156,102	517,966 406,046 111,920	230,411 181,002 49,419	1 1 1	1 1 1	1 1 1	
First quarter payroll, all employees	177,073	(NA)	(NA)	1	(NA)	(NA)	
Employer costs for fringe benefits	158,877 78,218 80,660	(NA) (NA) (NA)	(NA) (NA) (NA)	1 1 1	(NA) (NA) (NA)	(NA) (NA) (NA)	
All business receipts  Total construction receipts  Receipts for work subcontracted in from others  Other business and land receipts	1,996,210 1,946,553 653,218 49,657	1,457,818 1,408,192 490,102 49,626	660,843 644,758 247,650 16,194	1 1 1 2	1 1 1 9	1 1 1 2	
Net construction receipts	1,875,878	1,349,214	621,974	1	1	1	
Value added	1,416,829	978,219	434,642	1	1	1	
Selected payments.  Materials, components, and supplies. Construction work subcontracted to others Selected power, fuels, and lubricants. Electricity. Natural gas. Gasoline and diesel fuel. Lubricating oils and greases. Other.	579,381 484,980 70,675 23,726 3,462 1,473 15,500 2,447 844	479,599 1420,621 58,978 (NA) (NA) (NA) (NA) (NA) (NA)	226,457 1203,499 22,933 (NA) (NA) (NA) (NA) (NA) (NA) (NA)	1 1 4 1 1 1 1 1 1 3	1 1 (NA) (NA) (NA) (NA) (NA) (NA)	1 3 (NA) (NA) (NA) (NA) (NA)	
Rental payments for machinery, equipment, and structures  For machinery and equipment	22,760 14,755 8,005	(NA) 11,883 (NA)	(NA) 3,333 (NA)	1 1 1	(NA) 2 (NA)	(NA) (NA)	
Selected purchased services	27,985 12,978 753 14,254	(NA) (NA) (NA)	(NA) (NA) (NA) (NA)	1 2 1 1	(NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA)	
Capital expenditures.  New.  Structures and related facilities.  Machinery and equipment, including automobiles and trucks.  Automobiles and trucks intended primarily for highway use.  Used.  Structures and related facilities.  Machinery and equipment, including automobiles and trucks.	32,946 25,203 3,118 22,085 9,932 7,743 3,317 4,426	17,638 14,316 1,255 13,061 (NA) 3,322 581 2,741	7,492 5,958 1,762 4,196 (NA) 1,534 128 1,406	1 1 2 1 2 2 1 1 2	3 3 15 3 (NA) 4 1	6 4 5 4 (NA) 22 17 25	
Fixed assets and depreciation:  Gross book value of depreciable assets at end of year.  Accumulated depreciation at end of year  Net value of depreciable assets at end of year.  Depreciation charges during year.  Structures, additions, and related facilities:  Gross book value of depreciable assets at end of year.	222,163 111,868 110,295 21,006	140,443 76,153 64,290 13,554	(NA) (NA) (NA) (NA)	1 1 1 1	2 2 2 2 2	(NA) (NA) (NA) (NA)	
Accumulated depreciation at end of year.  Net value of depreciable assets at end of year.  Depreciation charges during year.  Machinery and equipment:	15,951 35,161 2,305	9,311 20,738 1,438	(NA) (NA) (NA)	1 1 2	2 2 3	(NA) (NA) (NA)	
Gross book value of depreciable assets at end of year	171,051 95,917 75,134 18,701	110,394 66,842 43,552 12,116	(NA) (NA) (NA) (NA)	1 1 1	2 2 3 2	(NA) (NA) (NA) (NA)	

<sup>&</sup>lt;sup>1</sup>Includes data for power, fuels, and lubricants, now shown separately.

Table 2. Construction Receipts for Establishments With Payroll by Type of Construction: 1977 and 1972

(Thousands of dollars. Detailed figures may not add to totals because of rounding. For meaning of abbreviations and symbols, see text)

Item	Installation or erect ing equipment specia tractors, n.e.c	Standard error of estimate (percent)		
	1977	1972	1977	1972
Construction receipts	1,946,553	1,408,192	1	1
Building construction	1,706,086	1,252,135	1	1
Apartment buildings	198,029	129,656	1	1
Other residential buildings	108,215	116,987	2	3
Industrial buildings and warehouses	534,976	341,155	1	2
Office and bank buildings	414,098	327,691	1	1
Stores, restaurants, public garages, and automobile service stations	113,156	75,168	2	3
Religious buildings	17,024	12,920	1	1
Educational buildings	90,399	92,283	1	2
Hospitals and institutional buildings	186,607	134,350	2	1
Other nonresidential buildings	43,580	21,925	4	4
Nonbuilding construction	138,282	114,045	4	2
Blast furnaces, petroleum refineries, and chemical complexes	55,372	(NA)	10	(NA)
Power plants	49,318	(NA)	1	(NA)
Other nonbuilding construction	33,592	(NA)	2	(NA)
Construction work not specified by kind	102,225	42,012	1	6

Note: See text for explanation of duplication.

census by less than the standard error. The chances are about 95 out of 100 that the difference is less than twice the standard error.

This report does not include figures for separate administrative offices, warehouses, garages, or other auxiliary units which service construction establishments of the same company. Data for separate central administrative offices and auxiliaries are collected in the enterprise statistics survey, a part of the economic censuses.

This report is one in a series presenting preliminary data collected in the 1977 Census of Construction Industries. The universe for this census included all establishments classified in the construction industries (SIC's 15, 16, 17, and 6552). This report will be superseded by a more detailed final report. In addition to data for establishments with payroll presented here, the final Industry Summary report and the reports in the Geographic Area Series will present limited data for construction establishments with no payroll during 1977.

The totals of construction receipts reported by all construction establishments in each of the several industry, State, or other groupings in this census contain varying amounts of duplication, since the construction work (and the receipts) of one firm may be subcontracted out to other construction firms and, therefore, will be included in the subcontractor's receipts. To avoid this duplication, a "net construction receipts" figure has been derived by subtracting the payments made for construction work subcontracted to others from the construc-

tion receipts.

Usually, "value added" is the best measure for comparing the relative economic importance of industries or areas. It eliminates the duplication in receipts because of subcontracting. It also eliminates from the output measure the cost of materials, which differs in relative importance among areas and industries. For this census, "value added" is equal to all business receipts less payments for construction work subcontracted to others and payments for materials, components, supplies, and fuels. "value added" is equal to all business receipts less land receipts, payments for construction work subcontracted to others, and payments for materials, components, supplies, and fuels.

## The symbols in the tables mean:

- Represents zero.
- D Withheld to avoid disclosing figures for individual companies; figures are included in higher level totals.
- S Withheld because estimates did not meet publication standards on the basis of either the associated standard error or a consistency review.
- Z Standard error of estimate is greater than zero but less than 1 percent.
- a Sampling error is greater than 40 percent.
- NA Not available; data were not collected.

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